

### Abstract

Fluid-based switch and methods for reducing oxides and corrosion products on switching fluid are disclosed. In one method, oxides are reduced by 5 depositing a switching fluid on a first substrate, coating the switching fluid with a corrosion inhibitor, and mating the first substrate to a second substrate, the first substrate and the second substrate defining therebetween a cavity holding the switching fluid, the cavity being sized to allow movement of the switching fluid between first and second states..

10